Author Index

Altmann, M., see Lobos, E., 135 Anders, R.F., see Peterson, M.G., 279 Anders, R.F., see Smythe, J.A., 227 Araguth, M.F., see Yoshida, N., 39 Ashall, F., see Greig, S., 31

Barrett, J., see Brophy, P.M., 155 Barry, J.D., see Hide, G., 213

Bates, P.A., Hermes, I. and Dwyer, D.M.

Golgi-mediated posttranslational processing of secretory acid phosphatase by *Leishmania donovani* promastigotes, 247

Benaim, G., Bermudez, R. and Urbina, J.A.

Ca²⁺ transport in isolated mitochondrial vesicles from

Leishmania braziliensis promastigotes, 61

Bermudez, R., see Benaim, G., 61

Bianco, A.E., Robertson, B.D., Kuo, Y.-M., Townson, S. and Ham, P.J.

Developmentally regulated expression and secretion of a polymorphic antigen by *Onchocerca* infective-stage larvae, 203

Bitonti, A.J., see Coons, T., 77 Blanco, S.A., see Yoshida, N., 39 Blum, J.J., see Keegan, F., 235 Bouvier, J., see Eakin, A.E., 1

Brophy, P.M., Crowley, P. and Barrett, J.

Detoxification reaction of Fasciola cytosolic glutathione transferases, 155

Bzik, D.J., see Tanaka, M., 127

Cattand, P., see Hide, G., 213 Chen, G.-X., see Zolg, J.W., 257 Christie, J.F., see McGibbon, A.M., 163 Colli, W., see Couto, A.S., 101 Collins, W.E., see Peterson, M.G., 279

Coombs, G.H., see North, M.J., 183 Coons, T., Hanson, S., Bitonti, A.J., McCann, P.P. and Ullman, B.

Alpha-difluoromethylornithine resistance in *Leishmania* donovani is associated with increased ornithine decarboxylase activity, 77

Coppel, R.L., see Smythe, J.A., 227

Couto, A.S., Goncalves, M.F., Colli, W., De Lederkremer, R.M.

The N-linked carbohydrate chain of the 85-kilodalton gly-coprotein from $Trypanosoma\ cruzi$ trypomastigotes contains sialyl, fucosyl and galactosyl (α 1-3)galactose units, 101

Craik, C.S., see Eakin, A.E., 1 Crowley, P., see Brophy, P.M., 155 Curry, S.S., see Giannini, S.H., 9

De Jonckheere, J.F., Majewska, A.C. and Kasprzak, W. *Giardia* isolates from primates and rodents display the same molecular polymorphism as human isolates, 23

De Lederkremer, R.M., see Couto, A.S., 101 Desai, J., see Iams, K.P., 47 Dissanayake, S. and Piessens, W.F.

Cloning and characterization of a Wucheria bancrofti-specific DNA sequence (Short Communication), 147

Doyle, P.S., see Engel, J.C., 69 Dvorak, J.A., see Engel, J.C., 69 Dwyer, D.M., see Bates, P.A., 247

Eakin, A.E., Bouvier, J., Sakanari, J.A., Craik, C.S. and McKerrow, J.H.

Amplification and sequencing of genomic DNA fragments encoding cysteine proteases from protozoan parasites, 1

Elliott, J.F., see Peterson, M.G., 279

Engel, J.C., Doyle, P.S. and Dvorak, J.A.
Isolate-dependent differences in the oxidative metabolism of *Trypanosoma cruzi* epimastigotes, 69

Esteva, M., see Ruiz, A.M., 117

Giannini, S.H., Curry, S.S., Tesh, R.B. and Van der Ploeg, L.H.T.

Size-conserved chromosomes and stability of molecular karyotype in cloned stocks of *Leishmania major*, 9

Godson, G.N., see Sen, K., 173

Goncalves, M.F., see Couto, A.S., 101

González, J., see Yoshida, N., 39

Greig, S. and Ashall, F.

Electrophoretic detection of Trypanosoma cruzi peptidases, 31

Gu, H.-M., see Tanaka, M., 127

Ham, P.J., see Bianco, A.E., 203

Hanson, S., see Coons, T., 77 Hermes, I., see Bates, P.A., 247

Hide, G., Cattand, P., LeRay, D., Barry, J.D. and Tait, A. The identification of *Trypanosoma brucei* subspecies using repetitive DNA sequences, 213

Iams, K.P., Young, J.R., Nene, V., Desai, J., Webster, P., ole-MoiYoi, O.K. and Musoke, A.J.Characterisation of the gene encoding a 104-kilodalton mi-

croneme rhoptry protein of *Theileria parva*, 47 Inselburg, J.W., see Tanaka, M., 127

Karam, M., see Lobos, E., 135

Kasprzak, W., see Jonckheere, J.F., 23

Keegan, F. and Blum, J.J.

Effects of oxygen concentration on the intermediary metabolism of *Leishmania major* promastigotes, 235

Kemp, D.J., see Peterson, M.G., 279

Kemp, D.J., see Smythe, J.A., 227

Kennedy, M.W., see McGibbon, A.M., 163

Kuo, Y.-M., see Bianco, A.E., 203

Kwakyo-Berko, F. and Meshnick, S.

Sequence preference of chloroquine binding to DNA and prevention of Z-DNA formation (*Short Communication*), 275

Lanar, D.E.

Sequence of the circumsporozoite gene of *Plasmodium* berghei ANKA-clone and NK65 strain (Short Communication), 151

LeRay, D., see Hide, G., 213

Lee, T.D.G., see McGibbon, A.M., 163

Lewis, A.P.

Sequence analysis upstream of the gene encoding the precursor to the major merozoite surface antigens of *Plasmo*dium yoelii (Short Communication), 285

Li, W.-B., see Tanaka, M., 127

Lobos, E., Altmann, M., Mengod, G., Weiss, N., Rudin, W. and Karam, M.

Identification of an *Onchocerca volvulus* cDNA encoding a low-molecular-weight antigen uniquely recognized by onchocerciasis patient sera, 135

Majewska, A.C., see De Jonckheere, J.F., 23

Marshall, V.M., see Peterson, M.G., 279

McCann, P.P., see Coons, T., 77

McGibbon, A.M., Christie, J.F., Kennedy, M.W. and Lee, T.D.G.

Identification of the major Ascaris allergen and its purification to homogeneity by high-performance liquid chromatography, 163

McKerrow, J.H., see Eakin, A.E., 1

Mengod, G., see Lobos, E., 135

Meshnick, S., see Kwakye-Berko, F., 275

Miller, R.A., Reed, S.G. and Parsons, M.

Leishmania gp63 molecule implicated in cellular adhesion lacks an Arg-Gly-Asp sequence, 267

Moreno, M., see Ruiz, A.M., 117

Musoke, A.J., see Iams, K.P., 47

Nene, V., see Iams, K.P., 47

Nguyen-Dinh, P., see Peterson, M.G., 279

North, M.J., Robertson, C.D. and Coombs, G.H.

The specificity of trichomonad cysteine proteinase analysed using fluorogenic substrates and specific inhibitors, 183 ole-MoiYoi, O.K., see Iams, K.P., 47

Parsons, M., see Miller, R.A., 267

Perkins, M.E., see Sam-Yellowe, T.Y., 91

Peterson, M.G., Nguyen-Dinh, P., Marshall, V.M., Elliott, J.F., Collins, W.E., Anders, R.F. and Kemp, D.J.

Apical membrane antigen of Plasmodium fragile (Short Communication), 279

Peterson, M.G., see Smythe, J.A., 227

Piessens, W.F., see Dissanayake, S., 147

Plitt, J.R., see Zolg, J.W., 257

Reed, S.G., see Miller, R.A., 267

Robertson, B.D., see Bianco, A.E., 203

Robertson, C.D., see North, M.J., 183

Rosenstein de Campanini, A., see Ruiz, A.M., 117

Rudin, W., see Lobos, E., 135

Ruiz, A.M., Esteva, M., Subias, E., Moreno, M., Rosenstein de Campanini, A., Velazquez, E. and Segura, E.L.

Monoclonal antibodies against the flagellar fraction of epi-

mastigotes of *Trypanosoma cruzi*: immunoprotection against metacyclic trypomastigotes obtained by immunization of mice with an affinity-purified antigen, 117

Russo, M., see Yoshida, N., 39

Sakanari, J.A., see Eakin, A.E., 1

Sam-Yellowe, T.Y. and Perkins, M.E.

Binding of *Plasmodium falciparum* rhoptry proteins to mouse erythrocytes and their possible role in invasion, 91

Saul, A., see Smythe, J.A., 227

Segura, E.L., see Ruiz, A.M., 117

Sen, K. and Godson, G.N.

Isolation of α - and β -tubulin genes of *Plasmodium falci*parum using a single oligonucleotide probe, 173

Smythe, J.A., Peterson, M.G., Coppel, R.L., Saul, A., Kemp, D.J. and Anders, R.F.

Structural diversity in the 45-kilodalton merozoite surface antigen of *Plasmodium falciparum*, 227

Subias, E., see Ruiz, A.M., 117

Tait, A., see Hide, G., 213

Tanaka, M., Gu, H.-M., Bzik, D.J., Li, W.-B. and Inselburg, J.W.

Dihydrofolate reductase mutations and chromosomal changes associated with pyrimethamine resistance of *Plasmodium falciparum*, 127

Tesh, R.B., see Giannini, S.H., 9

Tielens, A.G.M., Van den Heuvel, J.M. and Van den Bergh, S.G.

Continuous synthesis of glycogen by individual worm pairs of *Schistosoma mansoni* inside the veins of the final host, 195

Tielens, A.G.M., Van den Heuvel, J.M. and Van den Bergh, S.G.

Substrate cycling between glucose 6-phosphate and glycogen occurs in *Schistosoma mansoni*, 109

Townson, S., see Bianco, A.E., 203

Ullman, B., see Coons, T., 77

Urbina, J.A., see Benaim, G., 61

Van den Bergh, S.G., see Tielens, A.G.M., 109

Van den Bergh, S.G., see Tielens, A.G.M., 195

Van den Heuvel, J.M., see Tielens, A.G.M., 109

Van den Heuvel, J.M., see Tielens, A.G.M., 195

Van der Ploeg, L.H.T., see Giannini, S.H., 9

Velazquez, E., see Ruiz, A.M., 117

Webster, P., see Iams, K.P., 47

Weiss, N., see Lobos, E., 135

Yoshida, N., Blanco, S.A., Araguth, M.F., Russo, M. and González, J.

The stage-specific 90-kilodalton surface antigen of metacyclic trypomastigotes of *Trypanosoma cruzi*, 39

Young, J.R., see Iams, K.P., 47

Zolg, J.W., Chen, G.-X. and Plitt, J.R.

Detection of pyrimethamine resistance in *Plasmodium fal*ciparum by mutation-specific polymerase chain reaction, 257

Subject Index

Acetate, 235
Acid phosphatase, 247
Allelic diversity, 227
Allergen, 163
Animal Giardia, 23
Anthelmintic, 155
Antigen, 90-kDa, 39
Antigenicity, 227
Antimalarial, 275
Ascaris, 163

Ca²⁺ homeostasis, 61 Chloroquine, 275 Chromosome, 9 Circumsporozoite protein, 151 Cloned stock, 69 Cysteine protease, 1 Cytochrome content, 69

D-Lactate, 235
Detoxification, 155
Developing larvae, 203
Difluoromethylornithine, 77
Dihydrofolate reductase-thymidylate synthase, 127
cDNA library, 135
DNA probe, 147
DNA sequence, 151, 267
Drug resistance, 77

E-64, 183
East Coast fever, 47
Entamoeba histolytica, 1
Epimastigote stage, 69
Epitope mapping, 47
Experimental immunoprotection, 117

Fasciola hepatica, 155 Filariasis, 147 Fluorimetric calcium indicator, 61 Futile cycling, 109

Gal(α1-31)gal, 101 Genomic expression library, λgt11, 47 Glutathione transferase, 155 Glycogen metabolism, 109, 195 Glycolysis, 235 Glycoprotein, 101 Golgi complex, 247

IgE, 163 Immunoelectron microscopy, 135 Immunoscreening, 47, 135 In vivo, 195 In vivo metabolic labelling, 203 Integral membrane protein, 279 Intercalator, 275 Intracellular parasitism, 267 Invasion, 91 Isoenzyme, 23

Karyotype, 9 Kinetoplastida, 61

Leishmania, 77 Leishmania braziliensis, 61 Leishmania chagasi, 267 Leishmania donovani, 247 Leishmania major, 9, 235 Lipid peroxidation, 155

Major surface glycoprotein, 267
Malaria, 275, 279, 285
Membrane-associated peptidase, 31
Merozoite surface antigen, 227
Metacyclic trypomastigotes, 39
Metallochromic calcium indicator, 61
Metalloprotease, 267
Mitochondrion, 61
Monoclonal antibody, 117
Mouse erythrocyte, 91
Mutant, 77
Mutation-specific primer, 257

Nematode, 163 Nucleic acid sequence, 285 Numerical taxonomy, 213

Onchocerca spp, 203
Onchocerca volvulus, 135
Ornithine decarboxylase, 77
Oxidative metabolism, 69
Oxygen tension, 235
Oxygen utilization, 69

Parasite antigen, 47 Pasteur effect, 235 Peptidase, 31 Peptidyl aminomethylcoumarin, 183 Peptidyl diazomethane, 183 Phosphoglycan, 247 Plasmodia, 275 Plasmodium berghei, 151 Plasmodium falciparum, 91, 127, 173, 227, 257 Plasmodium fragile, 279 Plasmodium yoelii, 285 Point mutation, 257 Polyamine, 77 Polymerase chain reaction, 1, 127, 257 Polymorphism, 203 Polypeptide, 23 kDa, 203

Post-translational modification, 2247
Precursor to the major merozoite surface antigens, 285
Proteinase, 183
Pulsed field gradient, 23
Pulsed-field gradient gel electrophoresis, 9, 127
Pyrimethamine resistance, 257
Pyrimethamine, 127

Repetitive DNA, 213 Reticulocyte, 91 RFLP, 23 Rhoptry protein, 279 Rhoptry protein binding, 91 Ribosomal RNA genes, 213 dsRNA, 23

Schistosoma mansoni, 109, 195 Secretory antigen, 203 Sequence analysis, 227 Single oligonucleotide probe, 173 Speciation, 213 Species specificity, 147 Sporozoite, 47 Substrate cycle, 109 Succinate, 235

Tc-85, 101
Theileria parva, 47
Trichomonas vaginalis, 183
Tritrichomonas foetus, 183
Trypanosoma brucei, 1
Trypanosoma subspecies, 213
Trypanosoma cruzi, 1, 31, 30, 69, 101
Trypanosoma cruzi antigen, 117
Tubulin genes, 173
Turnover of glycogen, 109

Wuchereria bancrofti, 147

Z-DNA, 275

